

Title (en)  
EXTRUDING AND EXPANDING DRILL EQUIPMENT AND THE DRILLING METHOD THEREOF

Title (de)  
EXTRUDIER- UND AUFWEITBOHRAUSRÜSTUNG UND BOHRVERFAHREN DAFÜR

Title (fr)  
ENGIN DE FORAGE, EXTRUSION ET EXPANSION ET SA MÉTHODE D'UTILISATION

Publication  
**EP 2077373 B1 20140709 (EN)**

Application  
**EP 07720290 A 20070301**

Priority  
• CN 2007000647 W 20070301  
• CN 200610150039 A 20061025

Abstract (en)  
[origin: EP2077373A1] A compression enlarging driller comprises a vehicle body; a pole; an outer drilling rod; an inner drilling rod disposed within the outer drilling rod and moveable in a longitudinal direction; a windlass; a connecting lever having an upper end connected with a lower end of the inner drilling rod; a rotary digging bucket connected with a lower end of the connecting lever; a rotary enlarging device; a driving device; and a first hydraulic cylinder. When the driller bores a hole, it can bore and enlarge the hole without changing a drill bit. A pile constructed by the driller has a high bearing capacity, the number of required piles is decreased, costs lower, and efficiency is improved.

IPC 8 full level  
**E21B 27/00** (2006.01); **E02D 7/16** (2006.01)

CPC (source: EP US)  
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Cited by  
CN103075104A; CN103089178A; CN112554174A; CN109024576A

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